



FY17 Vermont Better Roads Grant Application

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: Burke Contact Person(s): Linda Corey

Address: 212 School Street West Burke, VT 05871

Email: burke@burkevermont.org Phone: (802) 467 - 3717

DUNS #: 27548320 Fiscal Year End Month (MM): 12

Accounting System: ☒ Automated ☐ Manual ☐ Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- ☒ Grant application cover sheet (Only submit one)
- ☒ Grant application form (One per category/project)
- ☒ Itemized Cost estimate for labor, equipment, and materials (see enclosed Cost Estimate Worksheet). If applicable, please break down funding by source (i.e. different grant sources)
- ☒ Project Location Map (please show location of affected water)
- ☒ Sketch of proposed erosion control measures or other management practices, including distances in feet
Also show approximate location of town/other right-of-way and/or property lines
- ☒ Photo(s) of the project area
- ☒ Letters of Support (RPC, VTTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- ☒ If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation



Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:



B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads



C. Correction of a Stream Bank or Slope Related Problem



D. Structure/culvert upgrades

Town/Organization: Town of Burke

Project Name: Pinkham Road/Dishmill Brook Project

Road Name: Pinkham Road TH #: 41 Structure # (if applicable): _____

Road Type: Unpaved Uncurbed

Class 4

Watershed: Dishmill Brook in Passumpsic River Watershed

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

There is a steep approach on both sides of the Dishmill Brook crossing on Pinkham Road. There is road and ditch erosion and sediment entering the brook. There are several undersized crossover culverts that need to be replaced to 18" pipes with inlets and outlets stabilized. Swales need to be improved and type 1 stone needs to be added to the project area.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

Stone line ~800' of ditches and swales. Hydroseed back slopes of ditches. Replace four crossover culverts, build culvert headwalls and stabilize outlets. Replace one driveway culvert and build headwalls. Add 3-5" of cohesive gravel or staymat to road surface and grade crown.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

The effect of this project will be to fully stabilize this road segment. The practices applied will help provide more long term solutions to this section of road, and reduce erosion and sediment to the brook. Since the Dishmill Brook is noted as having sediment issues, this project will help address that.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 0-50'

Progress to Date:

The town of Burke excavated ditches on this road segment and added some stone in 2015. Ditch excavation will not be part of the project.

Is there an emergency reason this project must be completed quickly? If yes, please explain:

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

☒ Yes: Town of Burke Road Erosion Inventory and Dishmill Brook Stormwater Master Plan

☐ No

Please list any professionals you may have contacted for assistance with this project (ANR River

Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):

VTrans District Technical Staff

Caledonia County Natural Resources Conservation District

VT DEC Basin Planner

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

Yes, the project is in the Right of Way.

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

Some - we expect to do most of the work, but will contract for hydroseeding and some excavation for culvert replacements.



Grant #2



Describe how the grant funds will be spent and/or attach a project budget:

The grant funds will be spent primarily on the purchase of materials and to cover contracting. Please see attached budget.

How do you plan to meet the required 20% match on this grant?:

The town of Burke will provide the required \$5000 match for this project with in-kind labor and cash match if needed.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 20,000.00

Estimated Total Project Cost (including 20% local match): \$ 26,830.00

Estimated Completion Date: 10/15/2016

REQUIRED ATTACHMENTS:

- ☒ Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- ☒ Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- ☒ Sketch of proposed erosion control measures, including:
 - ☒ Distances (ft.)
 - ☒ Estimate of waste & borrow quantities
 - ☒ Approx. location of town/other right-of-way and/or property lines
- ☒ Photo(s) of the project area.
- ☐ Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- ☐ If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- ☒ Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: Danuel Connor

Title: Select Board Chair

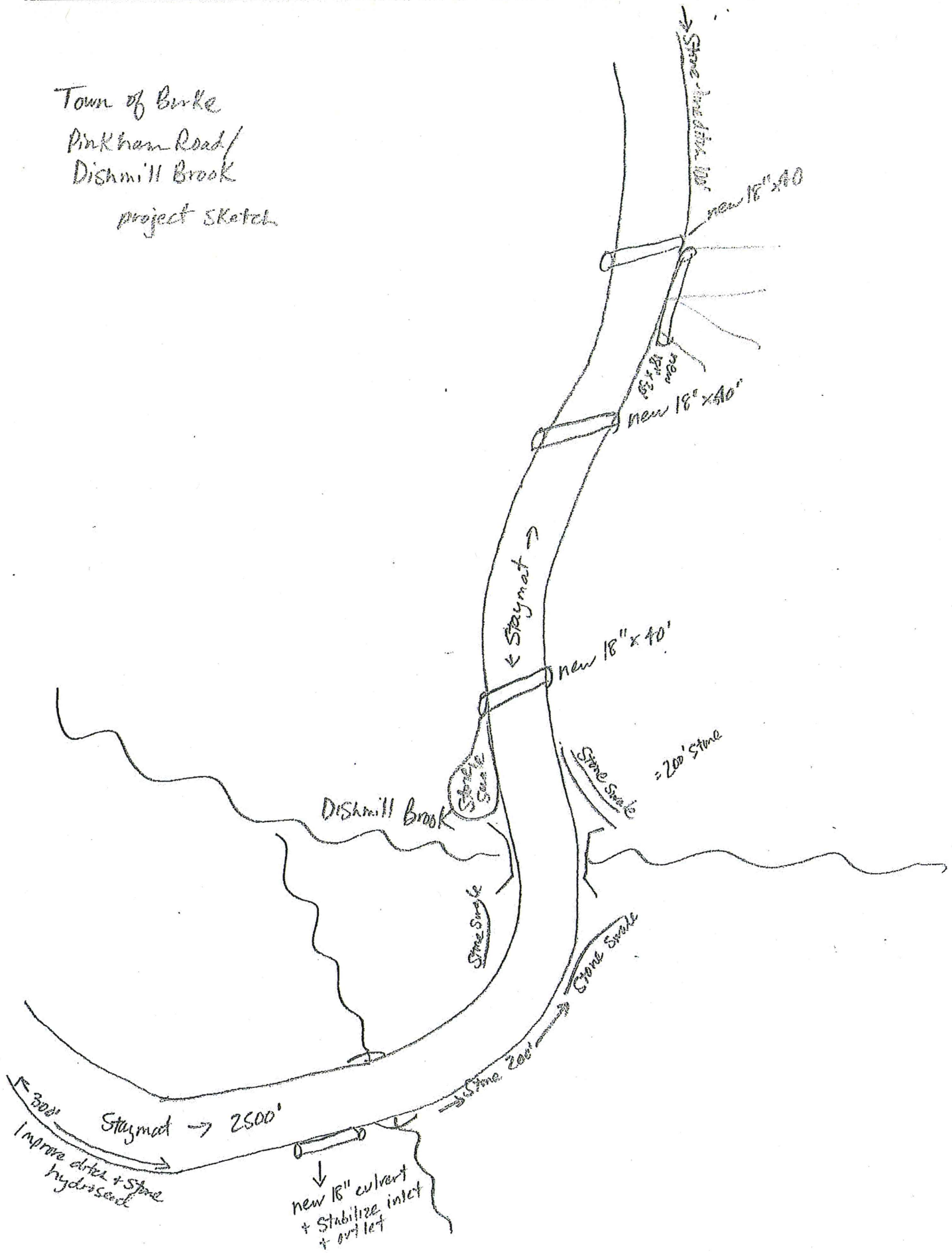
Cost Estimate Worksheet
Town and Road Name: Town of Burke

Project Name: Pinkham Road/Dishmill Brook

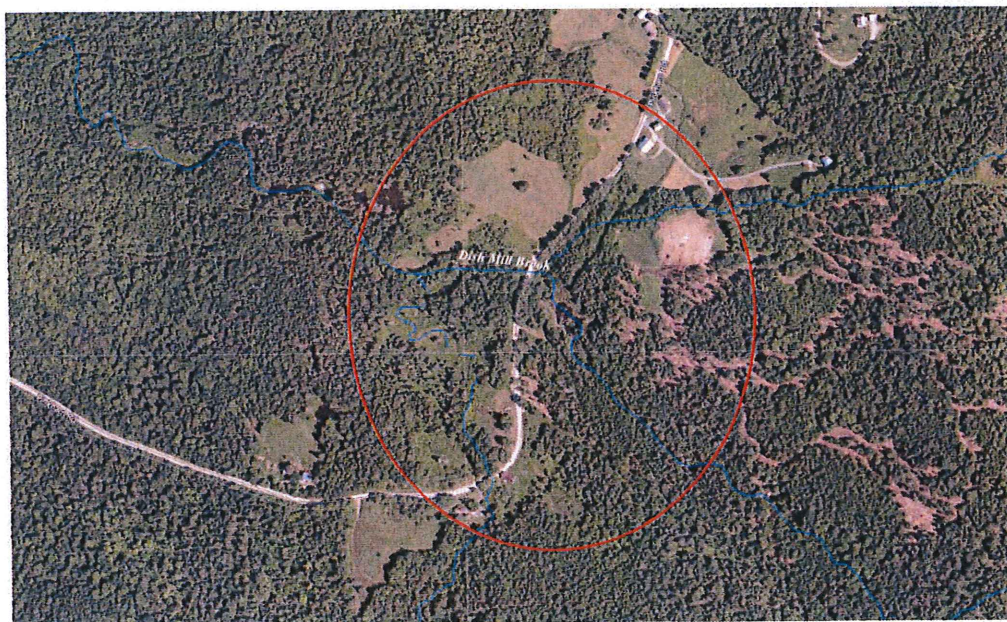
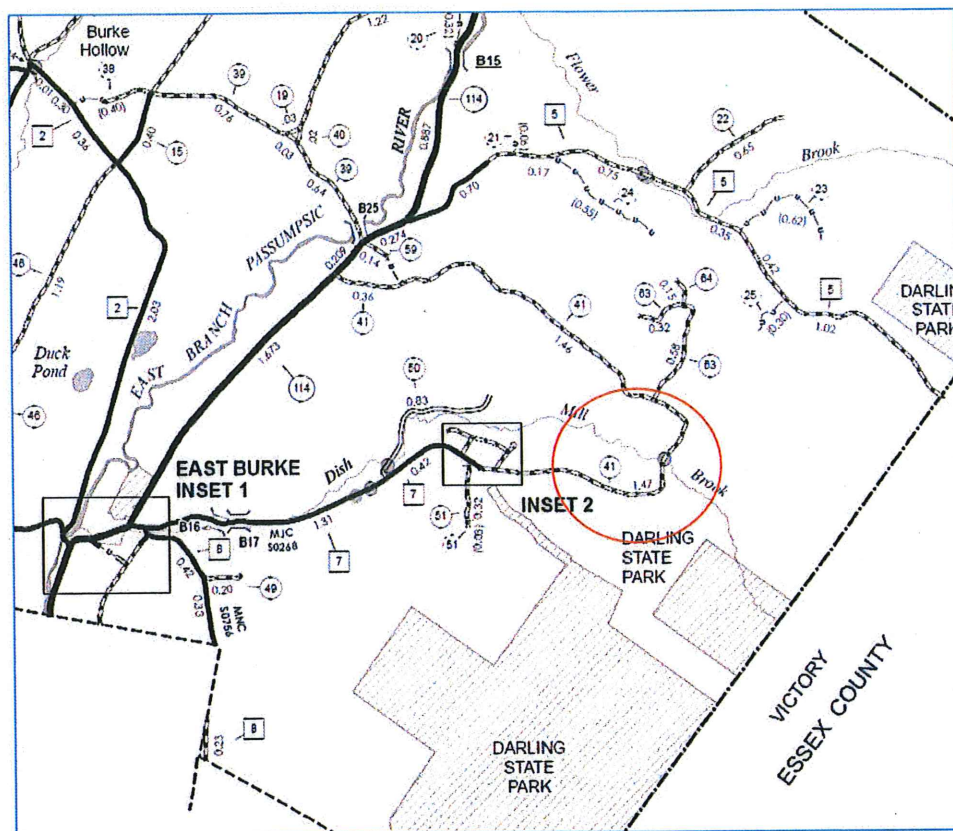


	Rate	# Hours	Total (Rate x Hours)
Labor			
Town Crew	\$30/hr	120	3600.00
Labor Total			3600.00
Equipment			
Town Truck	75/hr	24	1800.00
Excavator/Operator	150/hr	12	1800.00
Grader	100/hr	16	1600.00
Equipment Total			5200.00
Materials			
Type 1 stone	13/cv	180	2340.00
Erosion Stone (for headwalls)	12/cv	25	300.00
18"x40' steel corrugated culvert	620.00	3	1860.00
18"x30' steel corrugated culvert	465.00	2	930.00
Staymat	18/cv	700	12,600.00
Materials Total			18030.00
Miscellaneous			
Miscellaneous Total			
Grand Total			\$26,830.00
Match			\$6,830.00

Town of Burke
Pinkham Road/
Dishmill Brook
project sketch



Town of Burke: Pinkham Road/Dishmill Brook Project Area Map



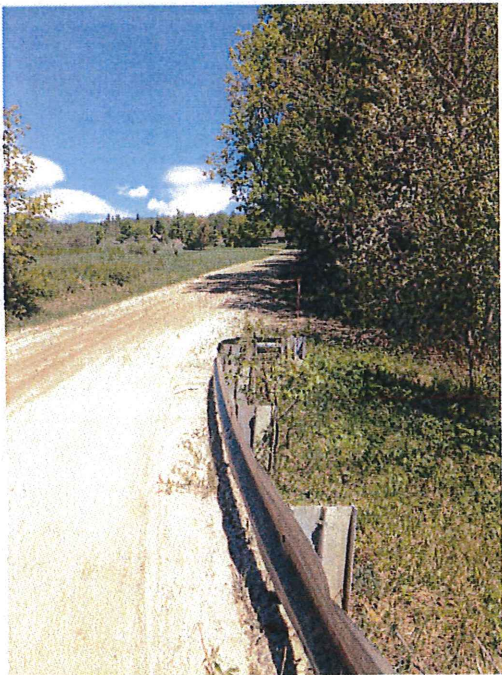
Town of Burke: Pinkham Road/Dishmill Brook Project Area photos



Looking up at driveway culvert and ditch in upper right of photo in need of improvements



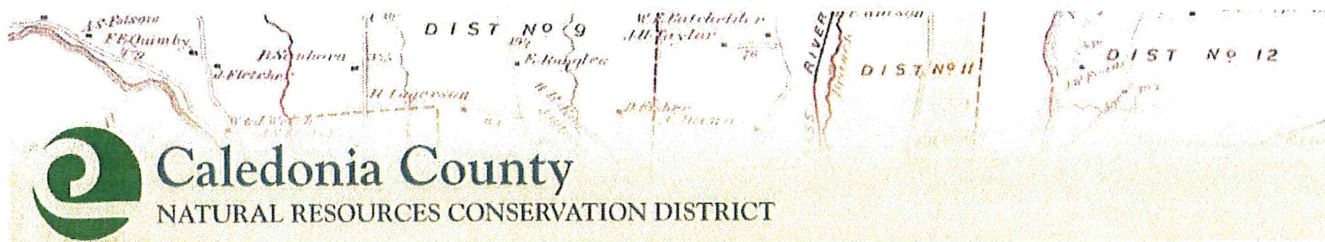
Looking at Dishmill Brook Crossing and unstable drainage



Looking up from crossing at hill where culvert replacements and staymat work will take place



At bridge showing sediment



481 Summer Street, Suite 202 St. Johnsbury, VT 05819 802.748.3885 x110
www.caledoniadistrict.org kerry.obrien@vt.nacdn.net fax: 855.794.3675

Technical Assistance for Landowners and Municipalities

Vermont Better Roads Program
Agency of Transportation
Municipal Assistance Bureau
1 National Life Drive
Montpelier, VT 05633

RE: Town of Burke Applications to Better Roads Program

To Whom It May Concern:

I am writing to support the applications submitted by the Town of Burke to the Better Roads program. The town is submitting two proposals – a Category B for an erosion control project on Pinkham Road at the Dishmill Brook Crossing, and a Category D for a culvert replacement on Carter Road. We fully support both of these proposals.

Pinkham Road project area is a high priority identified in the town's Road Erosion Inventory and Capital Budget Plan, which was completed in 2015. Additionally, this project area was also noted in the Dishmill Brook Stormwater Master Plan, completed in March 2016. The State's Water Quality Assessment Report flagged Dishmill Brook as stressed due to hydrologic scour and sedimentation from development and roads, and noted aquatic habitat degradation from a high sand bedload. Pinkham Road is very steep in the project area, and erosion and sedimentation is prevalent. Funding support for this project will help the town of Burke apply more long term corrective measures, upgrade drainage culverts, and help stabilize the road segment.

The second project involves the replacement of an undersized culvert on Carter Road. This project was also included in the town's Road Erosion Inventory as a priority. The current structure is misaligned, undersized, lacks inadequate cover, and is not buried deeply enough in the channel. The culvert is at risk of failing and washing out. Replacing this structure is a priority for the town.

We hope you will consider both of these projects for funding. Please let me know if you have any additional questions about the projects.

Thank you.
Best,

Kerry O'Brien, District Manager

CALEDONIA COUNTY NRCD BOARD OF SUPERVISORS

MICHELLE GREEN	DAVID McMATH	CHRIS LAGGIS	ALICE ALLEN	LARRY HAMEL
Chair	Vice-Chair	Treasurer	Supervisor	Supervisor